

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-27. (Canceled)

28. (Previously Presented) A method for treating a contaminated gas stream, the gas stream comprising one or more contaminants, comprising:

transporting a particulate unmilled sorbent material and coal from a remote location to a utility plant site;

combusting the coal to produce a contaminated gas stream;

milling the unmilled particulate sorbent material to produce a plurality of milled sorbent particles, the unmilled particulate sorbent material having a first size distribution and the milled sorbent particles having a second size distribution, wherein the second size distribution is smaller than the first size distribution and wherein the comminuting step occurs on-site with the plant in which the coal is combusted; and

thereafter introducing the comminuted sorbent particles into the gas stream to remove the one or more contaminants.

29. (Previously Presented) The method of claim 28, wherein the milled sorbent particles are introduced directly into the gas stream after the milling step.

30. (Previously Presented) The method of claim 28, wherein the milling step is performed by a jet mill.

31. (Previously Presented) The method of claim 28, wherein the milled sorbent particles are free of intermediate storage after the milling step.

32. (Previously Presented) The method of claim 28, wherein the one or more contaminants comprise an air toxic and wherein the time between the completion of the milling step to the introducing step is no more than about 30 seconds.

33. (Currently Amended) The method of claim ~~[[33]]~~32, wherein sorbent material is activated carbon and wherein the air toxic is at least one of nickel, arsenic, chromium, mercury, selenium, lead, a halogen, and a halide.

34. (Previously Presented) The method of claim 28, wherein the first size distribution has a P_{90} size ranging from about 10 microns to about 1 millimeter and the second size distribution has a P_{90} size ranging from about 0.5 to about 25 microns.

35. (Previously Presented) The method of claim 28, wherein, in the milling step, the size reduction factor ranges from about 5 to about 200.

36. (Previously Presented) The method of claim 28, wherein the milling step comprises:
 entraining the particulate unmilled sorbent in a high velocity gas stream; and
 impacting the particulate unmilled sorbent at the velocity of the gas stream against at least one of another particle and a stationary comminution surface to effect size reduction.

37. (New) A method for treating a contaminated gas stream, the gas stream comprising one or more contaminants, comprising:
- transporting a particulate unmilled sorbent material and coal from a remote location to a utility plant site;
 - combusting the coal to produce a contaminated gas stream;
 - milling the unmilled particulate sorbent material to produce a plurality of milled sorbent particles, the unmilled particulate sorbent material having a first size distribution and the milled sorbent particles having a second size distribution, wherein the second size distribution is smaller than the first size distribution and wherein the comminuting step occurs on-site with the plant in which the coal is combusted; and
 - introducing the comminuted sorbent particles into the gas stream to remove the one or more contaminants.
38. (New) The method of claim 37, wherein the milled sorbent particles are introduced directly into the gas stream after the milling step.
39. (New) The method of claim 37, wherein the milling step is performed by a jet mill.
40. (New) The method of claim 37, wherein the milled sorbent particles are free of intermediate storage after the milling step.
41. (New) The method of claim 37, wherein the one or more contaminants comprise an air toxic and wherein the time between the completion of the milling step to the introducing step is no more than about 30 seconds.

42. (New) The method of claim 41, wherein sorbent material is activated carbon and wherein the air toxic is at least one of nickel, arsenic, chromium, mercury, selenium, lead, a halogen, and a halide.

43. (New) The method of claim 37, wherein the first size distribution has a P_{90} size ranging from about 10 microns to about 1 millimeter and the second size distribution has a P_{90} size ranging from about 0.5 to about 25 microns.

44. (New) The method of claim 37, wherein, in the milling step, the size reduction factor ranges from about 5 to about 200.

45. (New) The method of claim 37, wherein the milling step comprises:
entraining the particulate unmilled sorbent in a high velocity gas stream; and
impacting the particulate unmilled sorbent at the velocity of the gas stream against at least one of another particle and a stationary comminution surface to effect size reduction.

46. (New) A method for treating a contaminated gas stream, the gas stream comprising one or more contaminants, comprising:
transporting a particulate unmilled sorbent material and coal from a remote location to a utility plant site;
providing a contaminated gas stream from combustion of the coal;
milling the unmilled particulate sorbent material to produce a plurality of milled sorbent particles, the unmilled particulate sorbent material having a first size distribution and the milled sorbent particles having a second size distribution, wherein the second size distribution is smaller than the first size distribution and wherein the comminuting step occurs on-site with the plant in which the coal is combusted; and

introducing the comminuted sorbent particles into the gas stream to remove the one or more contaminants.

47. (New) The method of claim 45, wherein the milled sorbent particles are introduced directly into the gas stream after the milling step.

48. (New) The method of claim 45, wherein the milling step is performed by a jet mill.

49. (New) The method of claim 45, wherein the milled sorbent particles are free of intermediate storage after the milling step.

50. (New) The method of claim 45, wherein the one or more contaminants comprise an air toxic and wherein the time between the completion of the milling step to the introducing step is no more than about 30 seconds.

51. (New) The method of claim 49, wherein sorbent material is activated carbon and wherein the air toxic is at least one of nickel, arsenic, chromium, mercury, selenium, lead, a halogen, and a halide.

52. (New) The method of claim 45, wherein the first size distribution has a P_{90} size ranging from about 10 microns to about 1 millimeter and the second size distribution has a P_{90} size ranging from about 0.5 to about 25 microns.

53. (New) The method of claim 45, wherein, in the milling step, the size reduction factor ranges from about 5 to about 200.

54. (New) The method of claim 45, wherein the milling step comprises:
entraining the particulate unmilled sorbent in a high velocity gas stream; and
impacting the particulate unmilled sorbent at the velocity of the gas stream against at least
one of another particle and a stationary comminution surface to effect size reduction.